

12/28/2015

59639-213



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

December 28, 2015

Ms. Linda Obrestad  
Regulatory Analyst  
Valent U.S. A. Corporation  
P.O. Box 8025  
Walnut Creek, CA 94596-8025

Subject: Notification per PRN 98-10 – Update Warranty/Disclaimer Statement  
EPA Registration Number and Minor Edits for Consistency/Add  
Oregon Restriction Statement  
Product Name: Aloft LC SC Insecticide  
EPA Registration Number: 59639-213  
Application Date: November 5, 2015  
Decision Number: 511106

Dear Ms. Obrestad:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, you may contact Melody Banks at 703 305 5413 or via email at [Banks.Melody@epa.gov](mailto:Banks.Melody@epa.gov).

Sincerely,

A handwritten signature in cursive script that reads "Melody Banks". Below the signature, the word "for" is written in a smaller, simpler script.

Venus Eagle, Product Manager 01  
Invertebrate & Vertebrate Branch 3  
Registration Division (7505P)  
Office of Pesticide Programs



GROUP	4A	INSECTICIDE
GROUP	3	INSECTICIDE

[Bracketed text is optional]

NOTIFICATION – REDLINE COPY

NOTIFICATION

DEC 28 2015

## Aloft® LC SC INSECTICIDE

FOR CONTACT AND SYSTEMIC INSECT PEST CONTROL IN LAWNS, LANDSCAPE ORNAMENTAL TREES (INCLUDING NON-BEARING FRUIT TREES), AROUND RESIDENTIAL, INSTITUTIONAL, PUBLIC, COMMERCIAL AND INDUSTRIAL BUILDINGS, PARKS, RECREATIONAL AREAS, AND ATHLETIC FIELDS. NOT FOR USE ON GOLF COURSES AND SOD FARMS.

### INGREDIENTS

Active Ingredients	By wt
Clothianidin*	24.70%
Bifenthrin**	12.30%
Other Ingredients	63.00%
Total	100.00%

\*(E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine

\*\* (2-methyl[1,1'-biphenyl]-3-yl)methyl (1RS,3RS)-3-[(Z)-2-chloro-3,3,3-trifluoroprop-1-propenyl]-2,2-dimethyl-cyclopropanecarboxylate (cis isomers 97% minimum, trans isomers 3% maximum)

Contains 2.22 lb of Clothianidin and 1.1 lb of Bifenthrin per gallon

**KEEP OUT OF REACH OF CHILDREN**

### WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle  
(If you do not understand the label, find someone to explain it to you in detail.)

SEE ~~INSIDE BOOKLET~~ NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Registration. No. ~~66330-36659639-213~~

EPA Est. No.

NET CONTENTS: 64 FLUID OUNCES

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p align="center"><b>NOTE TO PHYSICIAN:</b></p> <p>This pesticide contains a pyrethroid. If significant quantities have been swallowed, promptly eliminate the ingested quantities from the stomach and intestines. Treatment is symptomatic and supportive. Alcohol, milk, cream, and other digestible fats and oils should NOT be administered as they may increase absorption.</p>	
<p align="center"><b>HOTLINE NUMBER</b></p> <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. <b>FOR 24 HOUR EMERGENCY MEDICAL ASSISTANCE: CALL PROSAR at 1-866-303-6952.</b> You may also contact <b>800-892-0099</b> for emergency medical treatment information.</p>	

**Produced for:**

Arysta LifeScience North America, LLC  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

For Product Use Information, call 1-866-761-9397

**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS****WARNING**

May be fatal if swallowed. Harmful if inhaled. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid breathing spray mist or vapor. Avoid contact with skin, eyes, or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride or viton. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart. **Applicators and other handlers must wear:** long-sleeved shirt, and long pants, shoes plus socks and chemical-resistant gloves

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This product is extremely toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not apply where runoff is likely to occur.

This product is toxic to bees exposed to treatment and for more than 5 days following treatment. Do not apply this product to blooming, pollen-shedding or nectar-producing parts of plants if bees may forage on the plants during this time period, unless the application is made in response to a public health emergency declared by appropriate state or federal authorities.

# PROTECTION OF POLLINATORS



**APPLICATION RESTRICTIONS** EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.



Look for the bee hazard icon in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

**This product can kill bees and other insect pollinators.**

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.
- Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at:  
<http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx>.

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: [www.aapco.org/officials.html](http://www.aapco.org/officials.html). Pesticide incidents should also be reported to the National Pesticide Information Center at: [www.npic.orst.edu](http://www.npic.orst.edu) or directly to EPA at: [beekill@epa.gov](mailto:beekill@epa.gov).

**[Container Use Directions**

1. Remove the measuring chamber cap and induction seal. Replace cap and securely tighten. Tip container until liquid fills measuring chamber.
2. Return container to level position. No adjustment is needed.
3. Remove measuring chamber cap and dispense into proper application equipment.]

**[For multiple dose measuring:** Remove fill chamber cap and dispense according to markings on side of bottle.]

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Carefully read and understand the Directions for Use and restrictions before applying this product.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

Do not apply this product in any way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.



Do not apply Aloft® LC SC Insecticide while bees are foraging. Do not apply Aloft LC SC Insecticide to plants that are flowering. Only apply after all flower petals have fallen off.

~~[Language within brackets is optional text related to State specific information.]~~

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- 1) Treatment to soil or vegetation around structures;
- 2) Applications to lawns, turf, and other vegetation;
- 3) Applications to building foundations, up to a maximum height of 3 feet.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications, only.

**RESTRICTIONS**

- Do not apply by air.
- Do not water the treated area to the point of runoff.
- Do not make applications during rain.
- Do not mow until after irrigation or rainfall has occurred.
- Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.
- Do not apply through any type of irrigation system.
- Do not apply on the following: Commercial nurseries, commercial greenhouses, grass grown for seed, golf courses and sod farms.
- Do not allow children or pets on treated surfaces until the spray has dried.
- Do not apply this product, by any application method, to linden, basswood or other *Tilia* species.

## USE INFORMATION

*Aloft* LC SC Insecticide is a long lasting contact and systemic insecticide for control of listed insects infesting lawns and ornamentals in landscapes and surrounding areas. *Aloft* LC SC Insecticide can be used around residences, business complexes, industrial complexes, airports, playgrounds, school yards, parks and recreation areas, athletic fields, cemeteries and arboretums.

## PREPARATION OF SPRAY MIXTURES AND APPLICATION

Begin with clean equipment. Add sufficient clean water to the spray tank for one-half of the mix load. Start tank agitation. Add the necessary amount of *Aloft* LC SC Insecticide before adding any other products. Agitate to ensure thorough mixing while adding the remaining water. Maintain agitation during mixing and application. Apply with properly calibrated spray equipment. If agitation is stopped for any reason the spray solution must be thoroughly remixed prior to any further use.

Use sufficient water volume to provide uniform coverage of the lawn and ornamental plants. For control of listed surface insects, do not water in until at least 48 hours after the application. If the target insects are in the thatch, either apply *Aloft* LC SC Insecticide in enough spray volume to wet the thatch or lightly water in after application with enough water to wet the thatch zone.

For control of existing grub populations, water in after application with enough water to move the insecticide into the root zone where the grubs are feeding.

## RESISTANCE MANAGEMENT

*Aloft* LC SC Insecticide contains two active ingredients with different modes of action and provides a recognized built in insecticide resistance management strategy to minimize the development of insecticide resistance in insect pests. The active ingredients in *Aloft* LC SC Insecticide are clothianidin, a Group 4A insecticide, and bifenthrin, a Group 3 insecticide. Insect biotypes with acquired resistance to Group 4A or Group 3 insecticides may eventually dominate the insect population if Group 4A or Group 3 insecticides are used alone or repeatedly in the same site or in successive years as the primary method of control for targeted species.

To delay insecticide resistance in insects that are at risk of developing resistance to insecticides consider:

- Avoid the consecutive use of insecticides on the same insect species.
- Use tank mixtures or premixes of insecticides from a different target site of action.
- Base insecticide use on a comprehensive IPM program.
- Monitor treated insect populations for loss of field efficacy.
- ~~Contact your State Agricultural Experiment Station, State Extension Specialists, other lawn experts and/or Arysta LifeScience North America, LLC for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.~~ Contact your local extension specialist, certified crop advisors and/or manufacturer for insecticide resistance management or IPM recommendations for the specific site and resistant pest problems.
- For further information or to report suspected resistance, you may contact ~~Arysta LifeScience North America, LLC at 1-866-761-9397.~~ Valent U.S.A. Corporation at 800-898-2536.

## APPLICATION INSTRUCTIONS – TURFGRASS AND LAWNS.

*Aloft* LC SC Insecticide can be used for control of listed insects in lawns. *Aloft* LC SC Insecticide can be used around residences, business complexes, industrial complexes, airports, playgrounds, school yards, parks and recreation areas, athletic fields, cemeteries and arboretums.

*Aloft* LC SC Insecticide has sufficient contact and residual activity to provide high levels of control. The need for an application can be based on historical monitoring of the presence of or anticipated occurrence of individual or multiple insect pest species, the site, previous records or experiences, current season adult trapping or other methods. Optimum control of white grubs will be achieved when applications are made just prior to egg laying or to early instar larvae of target pests, followed by sufficient irrigation or rainfall to move the active ingredient into the zone where the insect pests are active. Multiple applications can be made each

growing season but do not use more than 23.3 fl oz of product (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per year. Note: You may also use additional products containing bifenthrin as long as the maximum amount of bifenthrin does not exceed 0.4 lb active ingredient per acre per year.

Apply *Aloft* LC SC Insecticide to lawns and perimeters at 11.65 – 23.3 fl oz per acre per year (0.27 – 0.54 fl oz/1,000 sq ft). The rate is dependent on the target pest(s), their stage of development and the desired level of control. Optimum control of white grubs (larvae) will be achieved when applications are made just prior to or just after peak egg laying. Use the higher rates within the rate range when long residual control is desired for control of multiple insect pests or late season applications are made to lawns already showing grub damage or damage by scavenging animals. Multiple applications can be made but do not exceed the maximum amount per year (23.3 fl oz/A or 0.54 fl oz/1,000 sq ft). Consult your local State Agricultural Experiment Station, State Extension Turf Specialists or other lawn experts for specific information concerning the timing of applications.

For early season control of listed insect pests (such as annual bluegrass weevil) and for full season control of white grubs, make the first application of *Aloft* LC SC Insecticide at peak adult activity or when other insect pests reach a damaging population in the spring at a rate of 11.65 – 23.3 fl oz per acre (0.27 – 0.54 fl oz/1,000 sq ft). For control of white grubs at standard application timing, apply 11.65-23.3 fl oz/A (0.27-0.54 fl oz/1,000 sq ft) just prior to peak adult activity or to early instar larvae.

For control of listed surface insects, do not water in until at least 24 hours after the application. For control of the target insects in the thatch, use enough carrier volume to move the insecticide into the thatch or lightly water in after application with enough water to wet the thatch zone. For control of armyworms, cutworms and other surface feeders, apply 11.65-23.3 fl oz/A (0.27-0.54 fl oz/1,000 sq ft) at the first sign of insects or insect damage. Repeat applications up to a total of 23.3 fl oz/A per year (0.54 fl oz/1,000 sq ft) to control additional flushes of insects. Up to a total of 23.3 fl oz/A per year (0.54 fl oz/1,000 sq ft) can be applied.



For control of existing grub populations, irrigate after application with enough water to move the insecticide into the zone where the grubs are feeding.

Do not mow until after irrigation or rainfall has occurred.

TURFGRASS AND LAWNS	
APPLICATION RATE	INSECT PEST
0.27 – 0.54 fl oz per 1,000 sq ft (11.65 – 23.3 fl oz/A)	Annual Bluegrass Weevil/Hyperodes (Adults) <sup>1</sup> Annual Bluegrass Weevil/Hyperodes (Larvae) <sup>1</sup> Ants <sup>2</sup> , Nuisance (Excluding Fire, Harvester, Pharaoh and Carpenter Ants) Armyworms Billbugs <sup>3</sup> Black Turfgrass Ataenius <sup>4</sup> Chiggers Chinch Bugs Cutworms European Crane Fly Grasshoppers Leafhoppers Mole Crickets <sup>5</sup> Pillbugs Sod Webworms Sowbugs Spittlebug Sugarcane Grub Ticks <sup>6</sup> White grubs <sup>7</sup> (Asiatic Garden Beetle, European Chafer, Green June Beetle, Japanese Beetle, Northern Masked Chafer, <i>Phyllophaga</i> spp. (May or June Beetle), Oriental Beetle, Southern Masked Chafer)
<b>Control</b> 0.46 fl oz per 1,000 sq ft (20 fl oz/A)  <b>Suppression</b> 0.33 fl oz per 1,000 sq ft (14.4 fl oz/A)	Fire Ants, Red Imported <sup>8</sup> (*)

<sup>1</sup> **Annual Bluegrass Weevil:** Application can be timed for adult weevils as they move from their over-wintering sites into turf. This movement usually begins shortly before or when Forsythia is in full bloom and continues to full bloom of dogwoods. Larvae from adult weevils that escape the application will be controlled with the application directed at adult weevils. Applications made after adult weevil activity will control larvae. Consult your State Cooperative Extension Service for more specific information regarding timing of application. Full season control of white grubs will be obtained with an application of 14 fl oz/A targeted towards Annual Bluegrass Weevil/Hyperodes.

<sup>2</sup> Applications of *Aloft* LC SC Insecticide in the late fall or early spring will reduce populations of nuisance ants on residential lawns. Make an application in the fall before ants stop foraging or

## TURFGRASS AND LAWNS

after they become active in the spring. Make a broadcast application and lightly water in to wet the turf and thatch area where nuisance ants are foraging.

<sup>3</sup> **Billbugs:** Application can be made when adult Billbugs are first observed, usually in April and May in temperate regions. A spring application will also control Billbug larvae. Consult your State Cooperative Extension Service for more specific information regarding timing of application. White grubs will be controlled with an application targeted towards Billbugs.

<sup>4</sup> **Black Turfgrass Ataenius:** Application can be timed to coincide with the first generation of Black Turfgrass Ataenius that usually appears during May. White grubs will be controlled with an application targeted towards Black Turfgrass Ataenius.

<sup>5</sup> **Mole Crickets:** Apply during peak adult flight and egg lay. If the soil is dry, irrigate before application to stimulate insect activity and water in lightly after application to move the insecticide into the zone where the mole crickets are active.

<sup>6</sup> **Ticks (including ticks that may transmit Lyme Disease and Rocky Mountain Spotted Fever):** Treat the entire area where exposure to ticks may occur. Use higher spray volumes when treating areas with dense groundcover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals.

**Deer Ticks (*Ixodes* sp.):** Apply in late fall and/or early spring to control adult ticks that are usually located on brush or grass above the soil surface and in mid- to late spring to control larvae and nymphs that reside in the soil and leaf litter.

**American Dog Ticks (*Dermacentor* sp.):** These ticks commonly congregate along paths or roadways where humans are likely to be encountered. Apply from mid-spring to early fall to control American dog tick larvae, nymphs and adults.

<sup>7</sup> **Aloft LC SC Insecticide** will control white grubs anytime applications are made when they are active from early spring to late fall. The residual activity of Aloft LC SC Insecticide is long enough to provide season long control of white grubs when applied for control of listed early season insects such as Annual Bluegrass Weevil, Billbugs, Nuisance Ants, or overwintering White Grubs.

<sup>8</sup> **Red Imported Fire Ants[\*]:** If the soil is not moist, irrigate before application or use a high volume application. For mound treatments, use one teaspoon Aloft LC SC Insecticide per gallon of water (this is equivalent to 14.4 fl oz Aloft LC SC Insecticide per acre applied in 87 gallons of water) and apply 1 – 2 gallons of finished spray per mound. The solution should be applied in such a manner to allow the solution to move into the mound. Also treat a four foot diameter circle around the mound. Apply in cool weather (65 - 80° F) or in early morning or late evening hours when most of the foraging workers are in the colony.

### RESTRICTIONS

- Do not apply more than a total of 23.3 fl oz of Aloft LC SC Insecticide (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per year.
- If the maximum season limit of Aloft LC SC Insecticide has been applied and pest populations require additional treatments, use another registered pesticide labeled for control of the targeted insects that does not contain clothianidin. You may use additional products containing bifenthrin as long as the maximum amount of bifenthrin does not exceed 0.4 lb active ingredient per acre per year.
- Do not allow this product to contact plants in bloom if bees are foraging the treatment area.
- Do not allow children and pets to enter the treated area until sprays have dried.
- Not for use on golf courses and sod farms.

[\*Not approved in California.]

### APPLICATION INSTRUCTIONS – LANDSCAPE ORNAMENTALS

Aloft LC SC Insecticide is a contact and long lasting systemic insect control product for listed insects infesting landscape ornamentals adjacent to turf areas. Aloft LC SC Insecticide can be used around residences, business complexes, industrial complexes, airports, playgrounds, school yards, parks and recreation areas, athletic fields, cemeteries and arboretums.

For foliar applications, apply enough spray solution to wet the surface of the leaves to the point of drip.

For control of listed surface insects and insects that crawl along the surface of the soil or mulch under ornamentals, water in lightly after application to move the insecticide into the areas where insects are active. Water in with enough irrigation or rainfall to move the active ingredient into the zone where the target insects are active. Soil surface applications will provide control of foliage feeding insects; however, optimum control will not be achieved until the active ingredient is taken up by the plant roots and translocated to the area where insects are feeding.

LANDSCAPE ORNAMENTALS		
Foliar Application <i>Aloft</i> LC SC Insecticide Rate (fl oz/100 gals)	Foliar Insect Pests Controlled	
3.6 – 15.5  (5.0 -22.5 fl oz/A based on 150 gallons of spray per acre)	Aphids Caterpillars Leafhoppers Mealybugs White Flies	
5.0 – 15.5  (7.5 -22.5 fl oz/A based on 150 gallons of spray per acre)	Ants <sup>1</sup> (Excluding Fire, Harvester, Pharaoh, and Carpenter Ants)  Bagworms Black Vine Weevil (adults) Brown Soft Scale Budworms California Red Scale (crawlers) Chiggers Clover Mites Crickets	Cutworms Earwigs Elm Leaf Beetles Flea Beetles Japanese Beetles (Adults) Plant Bugs Spiders Tent Caterpillars Tip Moths Weevils
8.0 – 15.5  (12 -22.5 fl oz/A based on 150 gallons of spray per acre)	Adelgids Azalea Lacebug Beetles Cicadas (Adults) Citrus Thrips Diaprepes (adults) Florida Wax Scale Glassy-winged Sharpshooter	Gypsy Moth Lacebugs Leafminers Leafrollers Mites <sup>2</sup> Pine Needle Scale (crawlers) Plant Bugs (incl. <i>Lieges</i> spp.) Scales, soft

Target the spray towards the areas where the insects are active.

Use enough water carrier to wet the surfaces on the target plants to the point of drip.

Repeat applications may be made if insects reappear but do not exceed a total of 0.54 fl oz *Aloft* LC SC Insecticide per 1,000 sq ft of landscape.

continued

- <sup>1</sup> *Aloft* LC SC Insecticide will control aphids, scale insects, mealybugs and other sucking pests on ornamentals and limit the honeydew available as a food source for ant populations. Ants (excluding fire, harvester, carpenter and pharaoh ants) present at the time of application will also be controlled.
- <sup>2</sup> *Aloft* LC SC Insecticide will provide suppression of Broad Mites, Clover Mites, European Red Mites and Spider Mites when used for control of other listed insects. Use a surfactant on hard to wet plants. The use of an alternate class of chemistry in a mite treatment program is recommended to prevent or delay development of bifenthrin resistant mite populations.

**RESTRICTIONS**

- Do not apply more than a total of 23.3 fl oz of *Aloft* LC SC Insecticide (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per year.
- If the maximum season limit of *Aloft* LC SC Insecticide has been applied and pest populations require additional treatments, use another pesticide labeled for control of the targeted insects that does not contain clothianidin. You may also use additional products containing bifenthrin as long as the maximum amount of bifenthrin does not exceed 0.4 lb active ingredient per acre per year.
- Follow application restrictions on this label, designated by the bee icon, to protect bees and other insect pollinators.

LANDSCAPE ORNAMENTALS			
SOIL SURFACE OR MULCH APPLICATION	SOIL INSECT PESTS CONTROLLED		APPLICATION INSTRUCTIONS
0.27 – 0.54 fl oz per 1,000 sq ft  (11.65 – 23.3 fl oz/A)	Ants, Nuisance (Excluding Fire, Harvester, Pharaoh, and Carpenter Ants) Beet Armyworm Beetles Black Vine Weevils (Larvae) Centipedes Crickets Cutworms Diaprepes (Adults) Earwigs Fall Armyworms Grasshoppers Millipedes	Pillbugs White Grubs (Asiatic Garden Beetle, European Chafer, Green June Beetle, Japanese Beetle, Northern Masked Chafer, <i>Phyllophaga</i> spp. (May or June Beetle), Oriental Beetle, Southern Masked Chafer)	Apply in enough water to wet the areas where the insects are active or water in after applications with enough irrigation to move the insecticide into the areas where insects are active.  For ornamental trees and woody shrubs see below.
SOIL SURFACE OR MULCH APPLICATION	ABOVE GROUND INSECT PESTS CONTROLLED		APPLICATION INSTRUCTIONS
0.34 – 0.54 fl oz per 1,000 sq ft  (15 – 23.3 fl oz/A)	Aphids Azalea Lacebug Borers* Black Vine Weevils (Adults) Caterpillars Flea Beetles Florida Wax Scale Glassy-winged Sharpshooter Gypsy Moth Caterpillars	Japanese Beetles (Adults) Leafhoppers Leafminers Leafrollers Mealybugs Plant Bugs (incl. <i>Lygus</i> spp.) Root Weevils (incl. Black Vine Weevils) Scales, Soft Whiteflies	Apply in enough water to wet the root zone of the plants. Control of leaf feeding insects will be delayed until the insecticide is taken up by the roots and moved into the areas where insects are feeding, usually 2 – 4 weeks.  For ornamental trees and woody shrubs see below.
<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>Do not apply more than a total of 23.3 fl oz of <i>Aloft</i> LC SC Insecticide (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per year.</li> <li>If the maximum season limit of <i>Aloft</i> LC SC Insecticide has been applied and pest populations require additional treatments, use another pesticide labeled for control of the targeted insects that does not contain clothianidin. You may use additional products containing bifenthrin as long as the maximum amount of bifenthrin does not exceed 0.4 lb active ingredient per acre per year.</li> </ul>			

**Drench application to ornamental trees and woody shrubs adjacent to turf:**

*Aloft* LC SC Insecticide can be used for systemic control of listed insects with an application to trees in landscapes and interior plantscapes. *Aloft* LC SC Insecticide contains clothianidin which is systemic and will be translocated throughout the tree. Treat the area over the root zone of the trees or apply the insecticide in the "root well" of the plant.

Apply the insecticide in enough water to get uniform coverage and water in after application. *Aloft* LC SC Insecticide is a systemic product and will be translocated upward into the plant system from root uptake. It must be placed in an area where the roots can absorb the active ingredient. It may take 2-4 weeks for the active ingredient to move from the root zone to the areas of the trees affected. If insect pests are already present and causing damage, consider making a foliar application and then following up with a drench application.

For ornamental trees and shrubs adjacent to turf areas, use 0.06 – 0.12 fl oz *Aloft* LC SC Insecticide per inch of cumulative trunk diameter (DBH) of the plant(s). For hedges six feet or less in height use 0.6 fl oz *Aloft* LC SC Insecticide per 100 linear feet of hedge. For hedges greater than six feet in height, use an additional 0.15 fl oz per 100 linear feet of hedge for each foot of hedge height over six feet. Before application remove any plastic or other barriers that may prevent the insecticide from reaching the root zone of the plants.

For Bronze Birch Borers, Flatheaded Borers and other borers (excluding Emerald Ash Borer and Asian Longhorned Beetles): Use a drench treatment around the trunk of the trees when the trees are actively growing. Mix 0.5 fl oz *Aloft* LC SC Insecticide in 10 gallons of water and apply 2 qt of the mixture per 1 inch DBH in a 1-2 ft area around the trunks of the trees.

For outdoor ornamentals, do not apply more than a total of 23.3 fl oz *Aloft* LC SC Insecticide (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per year.

**NUT TREES and Ornamental Trees (including Non-bearing Fruit Trees) In Landscapes that are NOT for Food Use**

Apply *Aloft* LC SC Insecticide when threshold populations are observed. Do not wait until large insect populations have been established. For foliar applications, apply *Aloft* LC SC Insecticide in sufficient water to ensure uniform and thorough coverage of foliage. Thorough coverage is required for listed insect control. To achieve optimum coverage, use proper spray pressures, nozzles, nozzle spacing and water volume per acre. For soil applications, apply as a soil surface spray to the entire root zone or as a banded spray to the tree well area.

APPLICATION RATES (POST-BLOOM APPLICATION)		
PEST	APPLICATION RATE	
Aphids Adelgids Leafhoppers Plum curculio Apple maggot Codling moth <sup>1</sup> Oriental fruit moth <sup>1</sup> Spotted tentiform leafminer <sup>2</sup> Western tentiform leafminer <sup>2</sup> Obliquebanded leafrollers <sup>2</sup> Whiteflies (suppression) <sup>2</sup>	<u>Soil application:</u> For trees under 6 feet tall  0.35 - 0.54 fl oz per 1,000 sq ft	Foliar Application  8.0 - 15.5 fl oz per 100 gallons*
	<u>Soil Application:</u> For Trees over 6 feet tall 0.54 - 1.25 fl oz per 1,000 sq ft	

\*The amount of A/oft LC SC Insecticide per acre will depend on tree size, pest pressure and the volume of foliage present.

<sup>1</sup> To control Codling moth and Oriental fruit moth, apply A/oft LC SC Insecticide in a program of rotational sprays with other labeled insecticides. When using the foliar application rates of 8.0 – 15.5 fl oz per 100 gallons of A/oft LC SC Insecticide to control Codling moth and/or Oriental fruit moth, do not apply treatments less than a 14 day interval.

<sup>2</sup> For control of leafminers and leafrollers, apply as a soil application in early Spring when the soil is not frozen. A foliar application may result in suppression only and a repeat foliar application may be necessary to maintain control.

It may take 2 - 4 weeks for the active ingredient to move from the root zone to the areas of the trees affected. If insect pests are already present and causing damage, consider making a foliar application and then following up with a drench application.

#### RESTRICTIONS

- Do not consume fruit or nuts from these trees at any time.
- Do not apply more than a total of 23.3 fl oz of A/oft LC SC Insecticide (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per year.
- When using the rates for trees larger than 6 feet, apply only to the target root area as a surface spray or as a band treatment, do not apply more than 23.3 ounces per acre on the treatment site or property.
- For foliar applications, apply A/oft LC SC Insecticide in a full coverage spray to the point of drip. The spray volume will depend on tree size and density of canopy. Repeat applications as needed to maintain control but do not apply more often than every 10 days.
- Do not apply foliar treatments less than 10 days apart.
- Do not apply A/oft LC SC Insecticide through any type of irrigation system.



**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:**

Store in a cool, dry place away from excessive heat.

Do not store near food, feed, fertilizers, seeds, or other pesticides.

Keep this product out of reach of children and animals at all times.

Store in original container only.

Open the product container carefully and after use, seal tightly.

~~To contain a spill: Cover the spilled product to prevent the material from spreading. If the product container is damaged, place the entire container along with the product in a secure receptacle and clearly label the contents.~~

For help with any spill, leak, fire or exposure involving this material, call day or night (800) 892-0099.

**PESTICIDE DISPOSAL:**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL/HANDLING:****[Non-refillable Containers equal to or less than 5 gallons:]**

[Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows; Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill.]

**~~Non-refillable Containers greater than 5 gallons:~~**

~~Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill.~~

**[REFILLABLE CONTAINERS:]**

[Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collections system. Repeat this procedure two more times.]

**~~FOR 24 HOUR CHEMICAL EMERGENCY (Spill, Leak, Fire or Accident) ASSISTANCE:~~** Call CHEMTREC at 1-800-424-9300.

**Warranty and Disclaimer Statement**

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer.

Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

~~TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.~~

~~TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.~~

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**DISCLAIMER, RISKS OF USING THIS PRODUCT,  
LIMITED WARRANTY  
AND LIMITATION OF LIABILITY**

**IMPORTANT:** Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

**RISKS OF USING THIS PRODUCT**

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks, associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

**LIMITED WARRANTY**

Valent warrants only, that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

**LIMITATION OF LIABILITY**

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

**PROMPT NOTICE OF CLAIM**

To the extent consistent with applicable law allowing such requirements, Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

**NO AMENDMENTS**

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

**TANK MIXES**

**NOTICE:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor to the extent allowed by applicable law.

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Read and follow the most restrictive directions and precautionary language of each product to be used in the tank mix with this product.

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Manufactured for:

**Valent U.S.A. Corporation**

P.O. Box 8025

Walnut Creek, CA 94596-8025

Made in U.S.A.

EPA Reg. No. 59639-213

EPA Est.

~~ALOFT LC SC (MASTER)~~ 03/18/14

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